

**PATENT COOPERATION TREATY**  
**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

|   |   |  |
|---|---|--|
| Applicant's or agent's file reference<br><b>157233 . 8 IL</b> | <b>FOR FURTHER ACTION</b>                                       | see Form PCT/ISA/220<br>as well as where applicable, item 5 below. |
| International application No.<br><b>PCT/IL2004/001096</b>     | International filing date (day/month/year)<br><b>01/12/2004</b> | (Earliest) Priority Date (day/month/year)<br><b>03/12/2003</b>     |
| Applicant<br><b>KETER PLASTIC LTD.</b>                        |   |  |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b))
- b.  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2.  Certain claims were found unsearchable (See Box II).

3.  Unity of Invention is lacking (see Box III).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_
  - as suggested by the applicant.
  - as selected by this Authority, because the applicant failed to suggest a figure.
  - as selected by this Authority, because this figure better characterizes the invention.
- b.  none of the figures is to be published with the abstract.

**INTERNATIONAL SEARCH REPORT**

International application No

PCT/IL2004/001096

**Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)**

A composite article (10) comprises a channel-shaped metal reinforcing element (12) and molded plastic shell (14) including a portion formed as a wall (18) mechanically closing the open side of the channel shape. The reinforcing element may include a plurality of open channels (46) each of them being closed by a portion of the plastic coating. Constructive elements (50) comprising at least two such composite articles may be manufactured, for example a flat panel made of parallel elongated beams. A method for manufacturing the composite article in an assembly mold (70) includes inserting a mold core (20) in the metal reinforcing element (12) via the open side of the channel transversely to the channel axis, assembling all parts of the mold, molding of the plastic coating (14), disassembling the mold; and removing the mold core from the composite article in direction parallel to the channel axis.

# INTERNATIONAL SEARCH REPORT

Intern: Application No  
PCT/IL2004/001096

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 F16S3/00 B29C45/14 B29C70/70 B29C70/26

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 B29C F16S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category | Citation of document, with indication, where appropriate, of the relevant passages                  | Relevant to claim No. |
|----------|---|-----------------------|
| X        | US 4 053 126 A (DURET ET AL)<br>11 October 1977 (1977-10-11)  | 1-3, 13,<br>17        |
| Y        | column 3, line 21 - line 26<br>column 3, line 55 - line 68; figure 8<br>column 4, line 19 - line 24 | 6, 7                  |
| X        | US 5 846 463 A (KEENEY ET AL)<br>8 December 1998 (1998-12-08)                                       | 1, 8, 17              |
| Y        | column 3, line 34 - line 45; figures 5, 6<br>column 5, line 15 - line 20                            | 6, 7                  |
| Y        | GB 2 370 803 A (* MAIER S COOP)<br>10 July 2002 (2002-07-10)<br>page 4, line 19 - line 27; figure 4 | 6, 7                  |
|          |   | -/-                   |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

17 March 2005

Date of mailing of the international search report

24/03/2005

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| Intern            | Application No |
| PCT/IL2004/001096 |                |

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| Y          | DE 200 13 208 U1 (RHODIA ENGINEERING PLASTICS S.A., SAINT-FONS)<br>5 October 2000 (2000-10-05)<br>claims 1,10; figures 1,2<br>-----   | 6,7                   |
| A          | FR 2 265 527 A (IMPERIAL CHEMICAL INDUSTRIES LTD,GB; IMPERIAL CHEMICAL INDUSTRIES LTD)<br>24 October 1975 (1975-10-24)<br>page 8, line 14 - page 9, line 33; figures 1-5<br>page 10, line 17 - page 11, line 9;<br>figures 6,7<br>----- | 24-30                 |
| A          | GB 2 378 915 A (* LOTUS CARS LIMITED)<br>26 February 2003 (2003-02-26)<br>page 7, line 32 - page 8, line 3; figure 1<br>page 8, line 13 - page 9, line 22; figures 2a-2c<br>-----   | 24-30                 |
| A          | PATENT ABSTRACTS OF JAPAN<br>vol. 012, no. 392 (M-755),<br>19 October 1988 (1988-10-19)<br>& JP 63 141713 A (NIPPON RADIATOR CO LTD),<br>14 June 1988 (1988-06-14)<br>abstract<br>-----   | 24-30                 |

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

Intern: **d Application No****PCT/IL2004/001096**

| Patent document cited in search report | Publication date |  | Patent family member(s)   |  | Publication date   |
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| DE 20013208                            | U1 05-10-2000    |  | NONE  |  |  |
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| GB 2378915                             | A 26-02-2003     |  | NONE  |  |  |
| JP 63141713                            | A 14-06-1988     |  | JP 7010539 B  |  | 08-02-1995   |